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METHOD FOR REDUCING LEACHING IN METAL-COATED MEMS ABSTRACT OF THE DISCLOSURE

A method is provided for preventing dopant leaching from a doped structural film during fabrication of a microelectromechanical system. A microstructure that includes the doped structural film, sacrificial material, and metallic material is produced with a combination of deposition, patterning, and etching techniques. The sacrificial material is dissolved with a release solution that has a substance destructive to the sacrificial material. This substance also acts as an electrolyte, forming a galvanic cell with the doped structural film and metallic material acting as electrodes. The effects of the galvanic cell are suppressed by including a nonionic detergent mixed in the release solution.

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